

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**  
**21865 Copley Dr., Diamond Bar, CA 91765-4182**

**MONITORING & ANALYSIS**  
**REPORT OF LABORATORY ANALYSIS**

**TO:** Jason Low, Ph.D.  
Atmospheric Measurements Manager  
Science and Technology Advancement

**LABORATORY NO:** 1619729

**REFERENCE NO:** GC6-121-105

**SAMPLE DESCRIPTION:**  
Triggered Sample  
Canister # 54650

**DATE SAMPLED:** 07/15/16

**DATE RECEIVED:** 07/15/16

**DATE ANALYZED:** 07/16/16

**SAMPLE LOCATION:**  
Highlands Community Center

**ANALYZED BY:** Yang Song

**REQUESTED BY:** Sumner Wilson

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**  
Volatile Organic Compounds (VOC) by Gas Chromatography(GC)  
and Flame Ionization Detection (FID)

Note: See attached for speciated results.

Date Approved: 9/14/16

Approved By:   
Solomon Teffera, Acting Sr. Manager  
Laboratory Services Branch  
(909) 396-2199

**LAB NO: 1619729**

**Location: Highlands Community Center**

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**ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	07/15/16	
Canister	54650	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	<b>218</b>	<b>100-700 ppbC</b>
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
ethylene	7.3	0.7-4.1
acetylene	20	
propane	3.0	0.4-5.0
propylene	1.7	0.2-0.7
isobutane	0.7	0.2-0.9
n-butane	1.0	0.3-1.7
1-butene	0.2	0.1-0.3
trans-2-butene	<0.1	
cis-2-butene	<0.1	
isopentane	3.8	
1-pentene	<0.1	
n-pentane	2.2	0.1-0.6
isoprene	0.3	
trans-2-pentene	<0.1	
cis-2-pentene	<0.1	
2,2-dimethylbutane	<0.1	
cyclopentane	<0.1	
2,3-dimethylbutane	0.2	
2-methylpentane	0.5	
3-methylpentane	0.3	
1-hexene	<0.1	<0.1-0.1
n-hexane	0.4	0.1-0.2
methylcyclopentane	0.3	
2,4-dimethylpentane	0.2	
benzene	0.7	0.1-0.5
cyclohexane	0.1	
2-methylhexane	0.2	
2,3-dimethylpentane	0.2	
3-methylhexane	0.2	
2,2,4-trimethylpentane	0.4	
n-heptane	0.2	0.1-0.2
methylcyclohexane	0.2	

**LAB NO: 1619729****Location: Highlands Community Center****ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS**

Quantitation of Organic Compounds by Gas Chromatography(GC) and  
Flame Ionization Detection (FID)

Sample Date	07/15/16	
Canister	54650	
<b>Sampling Location</b>	<b>Highlands Community Center</b>	<b>Ambient Air</b>
<b>Total NMOC, ppbC</b>	218	100-700 ppbC
<b><u>Compound</u></b>	<b><u>Conc. (ppbv)</u></b>	<b><u>Conc. (ppbv)</u></b>
2,3,4-trimethylpentane	0.1	
toluene	1.1	0.1-0.6
2-methylheptane	<0.1	
3-methylheptane	<0.1	
n-octane	<0.1	<0.1-0.3
ethylbenzene	0.2	0.1-0.2
m+p-xylenes	0.6	0.1-0.2
styrene	<0.1	<0.1-0.2
o-xylene	0.2	0.1-0.2
n-nonane	<0.1	<0.1-0.1
isopropylbenzene	<0.1	
n-propylbenzene	<0.1	
m-ethyltoluene	0.1	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	<0.1	
o-ethyltoluene	<0.1	
1,2,4-trimethylbenzene	0.2	
n-decane	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	
m-diethylbenzene	<0.1	
p-diethylbenzene	<0.1	
n-undecane	<0.1	<0.1
n-dodecane	<0.1	<0.1

NMOC = Non-Methane Organic Compounds

N.D. = Not Detected

**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT  
SAMPLE ANALYSIS REQUEST**



LABORATORY

TO: SCAQMD LAB:  OTHER:

SOURCE NAME: Southern California Gas Co. I.D. No. \_\_\_\_\_

Source Address: 12801 Tampa Ave City: Porter Ranch

Mailing Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: 91326

Contact Person: \_\_\_\_\_ Title: \_\_\_\_\_ Tel: \_\_\_\_\_

Analysis Requested by: Sumner Wilson Date: 7/15/16

Approved by: Jason Low Office: \_\_\_\_\_ Budget #: 44716

REASON REQUESTED: Court/Hearing Board  Permit Pending  Hazardous/Toxic Spill

Suspected Violation Rule(s) \_\_\_\_\_ Other

Sample Collected by: Qian Zhou Date: 7/15/16 Time: 11:30am

**REQUESTED ANALYSIS: PAMS analysis**

City/Location	Can#	Start day / time/ duration	Start vac	End vac
Highlands Community	54650	7-15-16 / 07:18 / 5 min	-30"	-4"

Relinquished by	Received by	Firm/Agency	Date	Time
<i>zhongqian</i>	<i>Qian Zhou</i>	SCAQMD Lab	7/15/16	3:00

Remarks: Samples collected by passive sampling via the XonTech 912 triggered by the Thermo 55i NMHC.  
Trigger is set to 5ppm  
Highlands community pool parking lot. Address: 12378 High Glen Way, Northridge CA 91326 (across from 12377)